



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Shuichi OKAWA et al.

Application No.: 10/721,418

Filed: November 26, 2003

Docket No.: 117761

For: MAGNETIC RECORDING MEDIUM AND MAGNETIC RECORDING DEVICE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- ☒ 2. The references were cited in a counterpart foreign application. An English language version of the foreign search report is attached for the Examiner's information. (Refs. 1-5)
- ☒ 3. The present application was filed or entered the U.S. National Stage of the PCT after June 30, 2003. In accordance with the June 11, 2003, Notice waiving the requirements of 37 CFR §1.98(a)(2)(i), copies of any U.S. patents and patent application publications are not attached. (Refs. 1-5)
- ☒ 4. English-language Abstracts of the non-English language references are attached hereto. (Refs. 6-9)



5. A computer-generated English translation of the following Japanese Patent Publication has been obtained from the website of the Japanese Patent Office (<http://www.jpo.go.jp>), and is attached, but has not been reviewed for accuracy. See References 6-9.

Respectfully submitted,



James A. Oliff  
Registration No. 27,075

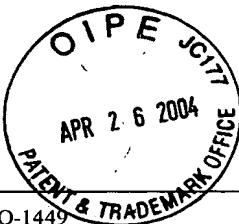
Thomas J. Pardini  
Registration No. 30,411

JAO:TJP/amo

Date: April 26, 2004

**OLIFF & BERRIDGE, PLC**  
**P.O. Box 19928**  
**Alexandria, Virginia 22320**  
**Telephone: (703) 836-6400**

<p>DEPOSIT ACCOUNT USE AUTHORIZATION Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461</p>
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Sheet 1 of 1

Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 117761		APPLICATION NO. 10/721,418	
INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)				APPLICANTS Shuichi OKAWA et al.			
				FILING DATE November 26, 2003			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
	1	5,660,930	08/26/1997	BERTERO et al.			
	2	US 6,475,611 B1	11/05/2002	CHEN			
	3	US 2002/0101692 A1	08/01/2002	FULLERTON et al.			
	4	5,563,000	10/08/1996	HATWAR et al.			
	5	5,082,749	01/21/1992	CARCIA			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	
✓	6	JP A 2002-025032 w/ abst & trans	01/25/2002	Japan			
✓	7	JP A 5-067322 w/ abst & trans	03/19/1993	Japan			
✓	8	JP A 5-275235 w/ abst & trans	10/22/1993	Japan			
✓	9	JP A 5-151631 w/ abst & trans	06/18/1993	Japan			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
	10	Ohmori H. and Maesaka A. "Magnetic Properties of a Co/Pd Artificial Super-Lattice Deposited on Single-Crystal MgO." <i>Sony Corporation Core Technology &amp; Network Company Core Technology Development Center</i> , Vol. 26, No. 4, 2002					
	11	Asahi, T. et al. "Preparation of Co/Pd Multilayer Perpendicular Magnetic Recording Media with Carbon Under Layer." <i>Kagami Memorial Laboratory for Materials Science and Technology</i> , Vol. 25, No. 4-2, 2001 pp. 575-578					
EXAMINER				DATE CONSIDERED			
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Date: April 26, 2004